



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C08K 3/34, 9/04	A1	(11) International Publication Number: WO 00/66657 (43) International Publication Date: 9 November 2000 (09.11.00)
(21) International Application Number: PCT/GB00/01652 (22) International Filing Date: 28 April 2000 (28.04.00) (30) Priority Data: 99303444.6 30 April 1999 (30.04.99) EP (71) Applicant (for all designated States except US): ALCAN INTERNATIONAL LIMITED [CA/CA]; 1188 Sherbrooke Street West, Montreal, Quebec H3A 3G2 (CA). (72) Inventors; and (75) Inventors/Applicants (for US only): BROWN, Stephen, Clif- ford [GB/GB]; 37 Thompson Drive, Caversfield, Bices- ter, Oxfordshire OX6 9FA (GB). DAVID, Marie-Laure [FR/FR]; Résidence Les Amandiers, Appartement 75, 17, rue Winston Churchill, F-60200 Campiegnie (FR). EVANS, Kenneth, Arthur [GB/GB]; Westward View, 4 Hillford Road, Chalfont St. Peter, Buckinghamshire SL9 0DX (GB). GARCIA, Javier, Prieto [ES/GB]; 47 Coopers Gate, Ban- bury, Oxfordshire OX16 2EQ (GB). (74) Agent: EASTWOOD, Simon, Christopher; Stevens, Hewlett & Perkins, 1 St. Augustine's Place, Bristol BS1 4UD (GB).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: FIRE RETARDANT COMPOSITIONS (57) Abstract <p>A polymer composition is provided that comprises a polymer and a synergistic flame retardant additive combination which comprises a nano-clay and a second filler. The second filler may be a material with known flame retardant properties, an inert filler or a combination of the same. The preferred nano-clay is Cloisite, the preferred second filler is aluminium trihydroxide. The presence of this flame retardant additive combination in polymers increases the strength of the char that forms during combustion. The formation of a strong char creates a barrier to ignition of the underlying material, for example electrical cables that have been provided with a coating of the polymeric composition.</p>		